



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1975.0010004/TJSAPPLICATION NO.
10/633,699APPLICANT
Umaña et al.FILING DATE
August 5, 2003GROUP
XXXX 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BR	AA1	4,215,051	07/29/1980	Schroeder et al.			08/29/1979
	AB1	4,946,778	08/07/1990	Ladner et al.			01/19/1989
	AC1	5,047,335	09/10/1991	Paulson et al.			12/21/1988
	AD1	5,547,933	08/20/1996	Lin			06/07/1995
	AE1	5,736,137	04/07/1998	Anderson et al.			11/03/1993
	AF1	5,776,456	07/07/1998	Anderson et al.			06/07/1995
	AG1	5,843,439	12/01/1998	Anderson et al.			06/07/1995
	AH1	5,952,203	09/14/1999	Withers et al.			04/11/1997
	AI1	5,958,403	09/28/1999	Strom et al.			07/11/1994
	AJ1	2003/0175884 A1	09/18/2003	Umaña et al.			08/05/2002
	AK1	2004/0072290 A1	04/15/2004	Umaña et al.			05/14/2003

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BR	AL1	WO 94/11026 ✓	05/26/1994	WIPO			Yes No
	AM1	WO 95/24494	09/14/1995	WIPO			Yes No
	AN1	EP 0 669 836 B1	07/03/1996	Europe			Yes No
	AO1	EP 0 752 248 A1	01/08/1997	Europe			Yes No
	AP	WO 97/30087	08/21/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BR	AR	1	Amstutz, H., et al., "Production and Characterization of a Mouse/Human Chimeric Antibody Directed Against Human Neuroblastoma," Int. J. Cancer 53:147-152, Wiley-Liss, Inc. (1993)
	AS	1	Anderson, W.F., "Human gene therapy," Nature 392:25-30, Nature Pub. Co. (1998)
	AT	1	Arathoon, W.R., and Birch, J.R., "Large-Scale Cell Culture in Biotechnology," Science 232:1390-1395, American Association for the Advancement of Science (1986)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Bailey, J.E., "Toward a Science of Metabolic Engineering," <i>Science</i> 252:1668-1675, American Association for the Advancement of Science (1991)
	AS	2	Bailey, J.E., et al., "Engineering Glycosylation in Animal Cells," in <i>New Developments and New Applications in Animal Cell Technology</i> , Merten, O.W., et al., eds., Kluwer Academic Publishers, The Netherlands, pp.5-23 (1998)
	AT	2	Bailey, J.E., et al., "Metabolic Engineering of N-Linked Glycoform Synthesis Systems in Chinese Hamster Ovary (CHO) Cells," in <i>Animal Cell Technology</i> , Carrondo, M.J.T., et al., eds., Kluwer Academic Publishers, The Netherlands, pp.489-494 (1997)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	Bibila, T.A., and Flickinger, M.C., "A Model of Interorganelle Monoclonal Antibody Transport and Secretion in Mouse Hybridoma Cells," <i>Biotechnol. Bioeng.</i> 38:767-780, John Wiley & Sons, Inc. (1991)
	AS	<u>3</u>	Bibila, T.A., and Robinson, D.K., "In Pursuit of the Optimal Fed-Batch Process for Monoclonal Antibody Production," <i>Biotechnol. Prog.</i> 11:1-13, American Chemical Society and American Institute of Chemical Engineers (1995)
	AT	<u>3</u>	Bitter, G.A., "Heterologous Gene Expression in Yeast," <i>Meth. Enzymol.</i> 152:673-684, Academic Press, Inc. (1987)




EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>4</u>	Bitter, G.A., et al., "Expression and Secretion Vectors for Yeast," <i>Meth. Enzymol.</i> 153:516-544, Academic Press, Inc. (1987)
	AS	<u>4</u>	Bretscher, M.S., and Munro, S., "Cholesterol and the Golgi Apparatus," <i>Science</i> 261:1280-1281, American Association for the Advancement of Science (1993)
	AT	<u>4</u>	Briles, E.B., et al., "Isolation of Wheat Germ Agglutinin-resistant Clones of Chinese Hamster Ovary Cells Deficient in Membrane Sialic Acid and Galactose," <i>J. Biol. Chem.</i> 252:1107-1116, American Society for Biochemistry and Molecular Biology, Inc. (1977)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>5</u>	Brisson, N., et al., "Expression of a bacterial gene in plants by using a viral vector," <i>Nature</i> 310:511-514, Nature Pub. Co. (1984)
	AS	<u>5</u>	Brockhausen, I., et al., "Control of glycoprotein synthesis. Characterization of (1→4)-N-acetyl-β-D-glucosaminyltransferases acting on the α-D-(1→3)- and α-D-(1→6)-linked arms of N-linked oligosaccharides," <i>Carbohydrate Res.</i> 236:281-299, Elsevier Science Publishers B.V. (1992)
	AT	<u>5</u>	Broglie, R., et al., "Light-Regulated Expression of a Pea Ribulose-1,5-Biphosphate Carboxylase Small Subunit Gene in Transformed Plant Cells," <i>Science</i> 224:838-843, American Association for the Advancement of Science (1984)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
 1975.0010004/TJS

APPLICATION NO.
 10/633,699

APPLICANT
 Umaña et al.

FILING DATE
 August 5, 2003

GROUP
 XXXXXX 1636
 1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PK	AR	6	Campbell, C., and Stanley, P., "A Dominant Mutation to Ricin Resistance in Chinese Hamster Ovary Cells Induces UDP-GlcNAc:Glycopeptide β -4-N-Acetylglucosaminyltransferase III Activity," <i>J. Biol. Chem.</i> 261:13370-13378, American Society for Biochemistry and Molecular Biology, Inc. (1984)
J	AS	6	Caruthers, M.H., et al., "New chemical methods for synthesizing polynucleotides," <i>Nuc. Acids Res. Symp. Series</i> 7:215-223, IRL Press Limited (1980)
↓	AT	6	Chow, F., et al., "Synthesis of oligodeoxyribonucleotides on silica del support," <i>Nuc. Acids Res.</i> 9:2807-2817, IRL Press Limited (1981)

EXAMINER
 Patrick Riggins

DATE CONSIDERED
 March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umafia et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Cole, N.B., et al., "Diffusional Mobility of Golgi Proteins in Membranes of Living Cells," <i>Science</i> 273:797-801, American Association for the Advancement of Science (1996)
	AS	2	Cole, S.P.C., et al., "The EBV-Hybridoma Technique and its Application to Human Lung Cancer," in <i>Monoclonal Antibodies and Cancer Therapy</i> , Reisfeld, R.A., and Sell, S., eds., Alan R. Liss, Inc., New York, NY, pp.77-96 (1985)
	AT	2	Coruzzi, G., et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-biphosphate carboxylase," <i>EMBO J.</i> 3:1671-1679, IRL Press Limited (1984)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Cote, R.J., et al., "Generation of human monoclonal antibodies reactive with cellular antigens," <i>Proc. Natl. Acad. Sci.</i> 80:2026-2030, The National Academy of Sciences (1983)
	AS	8	Crea, R., and Horn, T., "Synthesis of oligonucleotides on cellulose by a phosphotriester method," <i>Nuc. Acids Res.</i> 8:2331-2348, IRL Press Limited (1980)
	AT	8	Creighton, T.E., <i>Proteins: Structures and Molecular Principles</i> , W.H. Freeman and Co., New York, NY, pp.34-60 (1983)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BR	AR	2	Cumming, D.A., "Glycosylation of recombinant protein therapeutics: control and functional implications," <i>Glycobiology</i> 1:115-130, Oxford University Press (1991)
	AS	2	Dörr, U., et al., "First Clinical Results with the Chimeric Antibody chCE7 in Neuroblastoma. Targeting Features and Biodistribution Data," <i>Eur. J. Nucl. Med.</i> 20:858, Springer International (1993)
	AT	2	Dennis, J.W., et al., "β1-6 Branching of Asn-Linked Oligosaccharides Is Directly Associated with Metastasis," <i>Science</i> 236:582-585, American Association for the Advancement of Science (1987)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
 1975.0010004/TJS

APPLICATION NO.
 10/633,699

APPLICANT
 Umaña et al.

FILING DATE
 August 5, 2003

GROUP
 XXXXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Do, K-Y., "Modification of Glycoproteins by N-Acetylglucosaminyltransferase V Is Greatly Influenced by Accessibility of the Enzyme to Oligosaccharide Acceptors," <i>J. Biol. Chem.</i> 269:23456-23464, American Society for Biochemistry and Molecular Biology (1994)
	AS	<u>10</u>	Dunphy, W.G., and Rothman, J.E., "Compartmentation of Asparagine-linked Oligosaccharide Processing in the Golgi Apparatus," <i>J. Cell. Bio.</i> 97:270-275, Rockefeller University Press (1983)
	AT	<u>10</u>	Dunphy, W.G.; et al., "Attachment of Terminal N-Acetylglucosamine to Asparagine-Linked Oligosaccharide Occurs in Central Cisternae of the Golgi Stack," <i>Cell</i> 40:463-472, MIT (1985)

EXAMINER
 Patrick Riggins

DATE CONSIDERED
 March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Dunphy, W.G., et al., "Early and late functions associated with the Golgi apparatus reside in distinct compartments," <i>Proc. Natl. Acad. Sci.</i> 78:7453-7457, The National Academy of Sciences (1981)
	AS	<u>11</u>	Dwek, R.A., "Glycobiology: More Functions for Oligosaccharides," <i>Science</i> 269:1234-1235, American Association for the Advancement of Science (1995)
	AT	<u>11</u>	Easton, E.W., et al., "Enzymatic Amplification Involving Glycosyltransferases Forms the Basis for the Increased Size of Asparagine-linked Glycans at the Surface of NIH 3T3 Cells Expressing the N-ras Proto-oncogene," <i>J. Biol. Chem.</i> 266:21674-21680, American Society for Biochemistry and Molecular Biology (1991)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>12</u>	Ellices, M.J., and Goldstein, I.J., "Ehrlich Ascites Tumor Cell UDP-Gal:N-Acetyl-D-glucosamine β (1,4)-Galactosyltransferase," <i>J. Biol. Chem.</i> 263:3354-3362, American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AS	<u>12</u>	Elion, E.A., "Enzymatic Manipulation of DNA and RNA," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F., et al., eds., John Wiley and Sons, New York, NY, pp.3.17.1-3.17.10 (1998)
	AT	<u>12</u>	Fanger, M.W., et al., "Cytotoxicity mediated by human Fc receptors for IgG," <i>Immunol. Today</i> 10:92-99 (1989)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Field, M., et al., "The Use of High-Performance Anion-Exchange Chromatography and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry to Monitor and Identify Oligosaccharide Degradation," Anal. Biochem. 239:92-98, Academic Press, Inc. (1996)
	AS	<u>13</u>	Fouser, L.A., et al., "High Level Expression of a Chimeric Anti-Ganglioside GD2 Antibody: Genomic Kappa Sequences Improve Expression in COS and CHO Cells," Biotech. 10:1121-1127, Nature Pub. Co. (1992)
	AT	<u>13</u>	Frost, J.D., et al., "A Phase I/IB Trial of Murine Monoclonal Anti-GD2 Antibody 14.G2a plus Interleukin-2 in Children with Refractory Neuroblastoma," Cancer 80:317-333, American Cancer Society (1997)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Goldberg, D.E., and Kornfeld, S., "Evidence for Extensive Subcellular Organization of Asparagine-linked Oligosaccharide Processing and Lysosomal Enzyme Phosphorylation," <i>J. Biol. Chem.</i> 258:3159-3165, American Society for Biochemistry and Molecular Biology, Inc. (1983)
	AS	<u>14</u>	Goochee, C.F., et al., "The Oligosaccharides of Glycoproteins: Factors Affecting their Synthesis and their Influence on Glycoprotein Properties," in <i>Frontiers in Bioprocessing II</i> , Todd, P., et al., eds., American Chemical Society, Washington, DC, pp.199-240 (1992)
	AT	<u>14</u>	Gossen, M., et al., "Control of gene activity in higher eukaryotic cells by prokaryotic regulatory elements," <i>TIBTECH</i> 12:58-62, Elsevier Science Ltd. (1994)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>15</u>	Graham, R.A., et al., "The polymorphic epithelial mucin: potential as an immunogen for a cancer vaccine," <i>Cancer Immunol. Immunother.</i> 42:71-80, Springer-Verlag (1996)
	AS	<u>15</u>	Grierson, D., and Covey, S.N., <i>Plant Molecular Biology</i> , 2nd edition, Blackie Publishing, London, GB, Chapters 7-9 (1988)
	AT	<u>15</u>	Griffiths, G., et al., "The Dynamic Nature of the Golgi Complex," <i>J. Cell Bio.</i> 108 :277-297, Rockefeller University Press (1989)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Gross, H.J., et al., "A Highly Sensitive Fluorometric Assay for Sialyltransferase Activity Using CMP-9-fluoresceinyl-NeuAc as Donor," <i>Analyt. Biochem.</i> 186:127-134, Academic Press, Inc. (1990)
	AS	16	Gu, J., et al., "Purification and Characterization of UDP-N-Acetylglucosamine: α-6-D-Mannoside β1-6N-Acetylglucosaminyltransferase (N-Acetylglucosaminyltransferase V) from a Human Lung Cancer Cell Line," <i>J. Biochem.</i> 113:614-619, Tokyo Japanese Biochemical Society (1993)
	AT	16	Gurley, W.B., et al., "Upstream Sequences Required for Efficient Expression of a Soybean Heat Shock Gene," <i>Mol. Cell. Bio.</i> 6:559-565, American Society for Microbiology (1986)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Haga, Y., et al., "Dose-Related Comparison of Antibody-Dependent Cellular Cytotoxicity with Chimeric and Native Murine Monoclonal Antibody 17-1A," <i>Int. J. Pancreatol.</i> 15:43-50, Humana Press Inc. (1994)
	AS	17	Harpaz, N., and Schachter, H., "Control of Glycoprotein Synthesis," <i>J. Biol. Chem.</i> 255:4894-4902, American Society for Biochemistry and Molecular Biology, Inc. (1980)
	AT	17	Harvey, D.J., "Quantitative Aspects of the Matrix-assisted Laser Desorption Mass Spectrometry of Complex Oligosaccharides," <i>Rapid Commun. Mass Spectrom.</i> 7:614-619, John Wiley & Sons, Ltd. (1993)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>18</u>	Hirschberg, C.B., and Snider, M.D., "Topography of Glycosylation in the Rough Endoplasmic Reticulum and Golgi Apparatus," <i>Ann. Rev. Biochem.</i> 56:63-87, Annual Reviews Inc. (1987)
	AS	<u>18</u>	Huse, W.D., et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> 246:1275-1281, American Association for the Advancement of Science (1989)
	AT	<u>18</u>	Jefferis, R., et al., "Recognition sites on human IgG for Fcγ receptors: the role of glycosylation," <i>Immunology Letters</i> 44:111-117, Elsevier Science B.V. (1995)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
---------------------------------	---------------------------------------


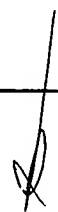

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>19</u>	Jenkins, N., and Curling, E.M.A., "Glycosylation of recombinant proteins: Problems and prospects," <i>Enzyme Microb. Technol.</i> 16:354-364, Butterworth-Heinemann (1994)
	AS	<u>19</u>	Jenkins, N., et al., "Getting the glycosylation right: Implications for the biotechnology industry," <i>Nat. Biotechnol.</i> 14:975-981, Nature Pub. Co. (1996)
	AT	<u>19</u>	Köhler, G., and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Nature Pub. Co. (1975)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	20	Kagawa, Y., et al., "Comparative Study of the Asparagine-linked Sugar Chains of Natural Human Interferon-β1 and Recombinant Human Interferon-β1 Produced by Three Different Mammalian Cells," J. Biol. Chem. 263:17508-17515, American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AS	20	Küster, B., et al., "Sequencing of N-Linked Oligosaccharides Directly from Protein Gels: In-Gel Deglycosylation Followed by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry and Normal-Phase High-Performance Liquid Chromatography," Analyt. Biochem. 250:82-101, Academic Press (1997)
	AT	20	Koenig, A., "Selectin inhibition: synthesis and evaluation of novel sialylated, sulfated and fucosylated oligosaccharides, including the major capping group of GlyCAM-1," Glycobiology 7:79-93, Oxford University Press (1997)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>21</u>	Kolber, M.A., et al., "Measurement of cytotoxicity by target cell release and retention of the fluorescent dye bis-carboxyethyl-carboxyfluorescein (BCECF)," <i>J. Immunol. Meth.</i> 108:255-264, Elsevier Science Publishers B.V. (1988)
	AS	<u>21</u>	Kornfeld, R., and Kornfeld, S., "Assembly of Asparagine-Linked Oligosaccharides," <i>Ann. Rev. Biochem.</i> 54:631-664, Annual Reviews Inc. (1985)
	AT	<u>21</u>	Kozbor, D., and Roder, J.C., "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> 4:72-79, Elsevier Biomedical Press (1983)

EXAMINER Patrick Riggins




DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	22	Lifely, M.R., et al., "Glycosylation and biological activity of CAMPATH-1H expressed in different cell lines and grown under different culture conditions," <i>Glycobiology</i> 5:813-822, Oxford University Press (1995)
	AS	22	Lis, H., and Sharon, N., "Protein glycosylation: Structural and functional aspects," <i>Eur. J. Biochem.</i> 218:1-27, FEBS (1993)
	AT	22	Lloyd, K.O., et al., "Comparison of O-Linked Carbohydrate Chains in MUC-1 Mucin from Normal Breast Epithelial Cell Lines and Breast Carcinoma Cell Lines," <i>J. Biol. Chem.</i> 271:33325-33334, American Society for Biochemistry and Molecular Biology, Inc. (1996)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
--------------------------	--------------------------------




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636 1648

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	23	Lund, J., et al., "Control of IgG/Fc Glycosylation: A Comparison of Oligosaccharides from Chimeric Human/Mouse and Mouse Subclass Immunoglobulin Gs," <i>Molec. Immunol.</i> 30:741-748, Pergamon Press Ltd. (1993)
	AS	23	Lund, J., et al., "Oligosaccharide-protein interactions in IgG can modulate recognition by Fcγ receptors," <i>Res. Commun.</i> 9:115-119, FASEB (1995)
	AT	23	Malhotra, R., et al., "Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein," <i>Nat. Med.</i> 1:237-243, Nature Pub. Co. (1995)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
--------------------------	--------------------------------




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	24	Marshall, E., "Gene therapy's growing pains," <i>Science</i> 269:1050-1055, American Association for the Advancement of Science (1995)
	AS	24	Matteucci, M.D., and Caruthers, M.H., "The Synthesis of Oligodeoxypyrimidines on a Polymer Support," <i>Tetrahedron Letters</i> 21:719-722, Pergamon Press Ltd. (1980)
	AT	24	Misaizu, T., et al., "Role of Antennary Structure of N-Linked Sugar Chains in Renal Handling of Recombinant Human Erythropoietin," <i>Blood</i> 86:4097-4104, The American Society of Hematology (1995)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	25	Moremen, K.W., et al., "Glycosidases of the asparagine-linked oligosaccharide processing pathway," <i>Glycobiology</i> 4:113-125, Oxford University Press (1994)
	AS	25	Morgan, A., et al., "The N-terminal end of the C _H 2 domain of chimeric human IgG1 anti-HLA-DR is necessary for C1q, FcγRI and FcγRIII binding," <i>Immunol.</i> 86:319-324, Blackwell Science Ltd. (1995)
	AT	25	Morrison, S.L., et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," <i>Proc. Natl. Acad. Sci.</i> 81:6851-6855, National Academy of Sciences (1984)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	26	Narasimhan, S., "Control of Glycoprotein Synthesis," J. Biol. Chem. 257:10235-10242, American Society for Biochemistry and Molecular Biology, Inc. (1982)
	AS	26	Narasimhan, S., et al., "Control of Glycoprotein Synthesis. Bovine Milk UDPgalactose: N-Acetylglucosamine β -4-Galactosyltransferase Catalyzes the Preferential Transfer of Galactose to the GlcNAc β 1,2Man α 1,3- Branch of both Bisected and Nonbisected Complex Biantennary Asparagine-Linked Oligosaccharides," Biochem. 24:1694-1700, American Chemical Society (1985)
	AT	26	Naven, T.J.P., and Harvey, D.J., "Effect of Structure on the Signal Strength of Oligosaccharides in Matrix-assisted Laser Desorption/Ionization Mass Spectrometry on Time-of-flight and Magnetic Sector Instruments," Rapid Commun. Mass Spectrom. 10:1361-1366, John Wiley & Sons, Ltd. (1996)

EXAMINER Patrick Riggins




DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	27	Neuberger, M.S., et al., "Recombinant antibodies possessing novel effector functions," Nature 312:604-608, Nature Pub. Co. (1984)
	AS	27	Nilsson, T., et al., "Kin recognition between medial Golgi enzymes in HeLa cells," EMBO J. 13:562-574, Oxford University Press (1994)
	AT	27	Nilsson, T., et al., "Overlapping Distribution of Two Glycotransferases in the Golgi Apparatus of HeLa Cells," J. Cell Biol. 120:5-13, Rockefeller University Press (1993)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
--------------------------	--------------------------------


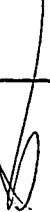

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	Nilsson, T., et al., "The role of the membrane-spanning domain and stalk region of N-acetylglucosaminyltransferase I in retention, kin recognition and structural maintenance of the Golgi apparatus in HeLa cells," J. Cell Sci. 109:1975-1989, The Company of Biologists Limited (1996)
	AS	28	Nishikawa, A., et al., "Purification, cDNA Cloning, and Expression of UDP-N-acetylglucosamine:β-D-mannoside β-1,4N-Acetylglucosaminyltransferase III from Rat Kidney," J. Biol. Chem. 267:18199-18204, American Society for Biochemistry and Molecular Biology, Inc. (1992)
	AT	28	Ohno, M., et al., "Enzymatic Basis of Sugar Structures of α-Fetoprotein in Hepatoma and Hepatoblastoma Cell Lines: Correlation with Activities of α1-6 Fucosyltransferase and N-Acetylglucosaminyltransferases III and V," Int. J. Cancer 51:315-317, Wiley-Liss, Inc. (1992)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	29	Orkin, S.H. and Motulsky, A.G., "Report and recommendations of the panel to assess the NIH investment in research on gene therapy," December 7, 1995, available at http://www.nih.gov/news/panelrep.html
	AS	29	Pâquet, M.R., et al., "Branch Specificity of Purified Rat Liver Golgi UDP-galactose:N-Acetylglucosamine β -1,4-Galactosyltransferase," <i>J. Biol. Chem.</i> 259:4716-4721, American Society for Biochemistry and Molecular Biology, Inc. (1984)
	AT	29	Page, M.J., and Sydenham, M.A., "High Level Expression of the Humanized Monoclonal Antibody CAMPATH-1H in Chinese Hamster Ovary Cells," <i>Biotechnology</i> 9:64-68, Nature Pub. Co. (1991)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>30</u>	Palcic, M.M., et al., "Regulation of N-Acetylglucosaminyltransferase V Activity," <i>J. Biol. Chem.</i> 265:6759-6769, American Society for Biochemistry and Molecular Biology, Inc. (1990)
	AS	<u>30</u>	Paulson, J.C., and Colley, K.J., "Glycosyltransferases," <i>J. Biol. Chem.</i> 264:17615-17618, American Society for Biochemistry and Molecular Biology, Inc. (1989)
	AT	<u>30</u>	Pels Rijcken, W.R., et al., "The effect of increasing nucleotide-sugar concentrations on the incorporation of sugars into glycoconjugates in rat hepatocytes," <i>Biochem. J.</i> 305:865-870, UK Biochemical Society (1995)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005


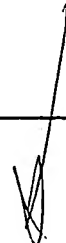

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	31	Rabouille, C., et al., "Mapping the distribution of Golgi enzymes involved in the construction of complex oligosaccharides," <i>J. Cell Sci.</i> 108:1617-1627, The Company of Biologists Limited (1995)
	AS	31	Rao, A.K., and Mendicino, J., "Influence of Glycopeptide Structure on the Regulation of Galactosyltransferase Activity," <i>Biochem.</i> 17:5632-5638, American Chemical Society (1978)
	AT	31	Rearick, J.I., et al., "Enzymatic Characterization of β -Galactoside $\alpha 2 \rightarrow 3$ Sialyltransferase from Porcine Submaxillary Gland," <i>J. Biol. Chem.</i> 254:4444-4451, American Society for Biochemistry and Molecular Biology, Inc. (1979)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005


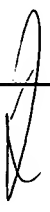

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	32	Reff, M.E., et al., "Depletion of B Cells In Vivo by a Chimeric Mouse Human Monoclonal Antibody to CD20," <i>Blood</i> 83:435-445, American Society of Hematology (1994)
	AS	32	Riechmann, L., et al., "Reshaping human antibodies for therapy," <i>Nature</i> 332:323-327, Nature Pub. Co. (1988)
	AT	32	Robinson, R.R., et al., "Chimeric mouse-human anti-carcinoma antibodies that mediate different anti-tumor cell biological activities," <i>Hum. Antibod. Hybridomas</i> 2:84-93, Butterworth-Heinemann (1991)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	33	Rogers, S.G., et al., "Gene Transfer in Plants: Production of Transformed Plants Using Ti Plasmid Vectors," in <i>Methods for Plant Molecular Biology</i> , Weissbach, A., and Weissbach, H., eds., Academic Press, Inc., San Diego, CA, pp.423-463 (1988)
	AS	33	Roman, H., "Development of Yeast as an Experimental Organism," in <i>The Molecular Biology of the Yeast Saccharomyces, Life Cycle and Inheritance</i> , Strathern, J.N., et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp.1-9 (1981)
	AT	33	Rothman, J.E., and Orci, L., "Molecular dissection of the secretory pathway," <i>Nature</i> 355:409-415, Nature Pub. Co. (1992)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	34	Rothman, J.E., and Wieland, F.T., "Protein Sorting by Transport Vesicles," <i>Science</i> 272:227-234, American Association for the Advancement of Science (1996)
	AS	34	Rothstein, R., "Cloning in Yeast," in <i>DNA Cloning Column II: a practical approach</i> , Glover, D.M., ed., IRL Press, Washington, DC, pp.45-66 (1985)
	AT	34	Russo, R.N., et al., "β1,4-Galactosyltransferase: A Short NH ₂ -terminal Fragment That Includes the Cytoplasmic and Transmembrane Domain Is Sufficient for Golgi Retention," <i>J. Biol. Chem.</i> 267:9241-9247, American Society for Biochemistry and Molecular Biology, Inc. (1992)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	35	Sambanis, A., et al., "A Model of Secretory Protein Trafficking in Recombinant AtT-20 Cells," <i>Biotech. And Biotechnol. Bioeng.</i> 38:280-295, John Wiley & Sons, Inc. (1991)
	AS	35	Sambrook, J., et al., <i>Molecular Cloning, A Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp.8.1-9.62 (1989)
	AT	35	Sburlati, A., et al., "Novel glycoform of recombinant human IFN-β by overexpression of N-acetyl glucosaminyltransferase II," <i>Glycoconj. J.</i> 14:781, Kluwer Academic Publishing (1997)

EXAMINER Patrick Riggins




DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>36</u>	Sburlati, A.R., et al., "Synthesis of Bisected Glycoforms of Recombinant IFN- β by Overexpression of β -1,4-N-Acetylglucosaminyltransferase III in Chinese Hamster Ovary Cells," <i>Biotechnol. Prog.</i> 14:189-192, American Chemical Society (Mar-Apr 1998)
	AS	<u>36</u>	Schachter, H., "Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides," <i>Biochem. Cell. Biol.</i> 64:163-181, National Research Council of Canada (1986)
	AT	<u>36</u>	Shao, M-C., and Wold, F., "The Effect of the Protein Matrix on Glycan Processing in Glycoproteins," <i>J. Biol. Chem.</i> 263:5771-5774, American Society for Biochemistry and Molecular Biology, Inc. (1988)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	37	Shao, M-C., and Wold, F., "The effect of the protein matrix proximity on glycan reactivity in a glycoprotein model," <i>Eur. J. Biochem.</i> 228:79-85, FEBS (1995)
	AS	37	Sheares, B.T., Robbins, P.W., "Glycosylation of ovalbumin in a heterologous cell: Analysis of oligosaccharide chains of the cloned glycoprotein in mouse L cells," <i>Proc. Natl. Acad. Sci.</i> 83:1993-1997, National Academy of Sciences (1986)
	AT	37	Shelikoff, M., et al., "A Modeling Framework for the Study of Protein Glycosylation," <i>Biotechnol. Bioeng.</i> 50:73-90, John Wiley & Sons, Inc. (1996)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP 1648 XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	38	Smith, G.E., et al., "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations Within the Polyhedrin Gene," J. Virol. 46:584-593, American Society for Microbiology (1983)
	AS	38	Spellman, M.W., et al., "Carbohydrate Structures of Human Tissue Plasminogen Activator Expressed in Chinese Hamster Ovary Cells," J. Biol. Chem. 264:14100-14111, American Society for Biochemistry and Molecular Biology, Inc. (1989)
	AT	38	Struhl, K., "Subcloning of DNA Fragments," in Current Protocols in Molecular Biology, Ausubel, F., et al., eds., John Wiley and Sons, New York, NY, pp.3.16.1-3.16.11 (1998)

EXAMINER Patrick Riggins

DATE CONSIDERED March 17, 2005




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	39	Surfus, J.E., et al., "Anti-Renal-Cell Carcinoma Chimeric Antibody G250 Facilitates Antibody-Dependent Cellular Cytotoxicity with In Vitro and In Vivo Interleukin-2-Activated Effectors," <i>J. Immunother. Emphasis Tumor Immunol.</i> 19:184-191, Lippincott-Raven Publishers (1996)
	AS	39	Tabas, I., and Kornfeld, S., "Purification and Characterization of a Rat Liver Golgi α -Mannosidase Capable of Processing Asparagine-linked Oligosaccharides," <i>J. Biol. Chem.</i> 254:11655-11663, American Society for Biochemistry and Molecular Biology, Inc. (1979)
	AT	39	Takamatsu, N., et al., "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA," <i>EMBO J.</i> 6:307-311, IRL Press Limited (1987)

EXAMINER Patrick Riggins




DATE CONSIDERED March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	40	Takeda, S-i. et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," <i>Nature</i> 314:452-454, Nature Pub. Co. (1985)
	AS	40	Tanemura, et al., "Reduction of the Major Swine Xenoantigen GAL α (1,3)GAL by Transfection of N-Acetylglucosaminyl Transferase III (GnT-III) Gene," <i>Transplantation Proceedings</i> 29:891-892 (1997)
	AT	40	Taniguchi, N., et al., "Glycosyltransferase Assays Using Pyridylaminated Acceptors: N-Acetylglucosaminyltransferase III, IV, and V," <i>Meth. Enzymol.</i> 179:397-408, Academic Press, Inc. (1989)




EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	41	Trill, J.J., et al., "Production of monoclonal antibodies in COS and CHO cells," Curr. Opin. Biotechnol. 6:553-560, Current Biology Ltd. (1995)
	AS	41	Umaña, P., et al., "Engineered glycoforms of an antineuroblastoma IgG1 with optimized antibody-dependent cellular cytotoxic activity," Nat. Biotechnol. 17:176-180, Nature Pub. Co. (1999)
	AT	41	Varki, A., "Biological roles of oligosaccharides: all of the theories are correct," Glycobiology 3:97-130, Oxford University Press (1993)




EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	42	Velasco, A., et al., "Cell Type-dependent Variations in the Subcellular Distribution of α -Mannosidase I and II," J. Cell. Biol. 122:39-51, Rockefeller University Press (1993)
	AS	42	Verma, I.M., et al., "Gene therapy--promises, problems and prospects," Nature 389:239-242, Nature Pub. Co. (1997)
	AT	42	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," Glycobiology 4:227-237, Oxford University Press (1994)




EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXXXX 1636	




U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>43</u>	Wiest, D.L., et al., "Membrane Biogenesis during B Cell Differentiation: Most Endoplasmic Reticulum Proteins are Expressed Coordinately," <i>J. Cell. Biol.</i> 110:1501-1511, Rockefeller University Press (1990)
	AS	<u>43</u>	Wright, A., and Morrison, S.L., "Effect of glycosylation on antibody function: implications for genetic engineering," <i>TIBTECH</i> 15:26-31, Elsevier Science Ltd. (1997)
	AT	<u>43</u>	Wyss, D.F., and Wagner, G., "The structural role of sugars in glycoproteins," <i>Curr. Opin. Biotechnol.</i> 7:409-416, Current Biology Ltd. (1996)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXXXX 1636	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>44</u>	Yamaguchi, N., and Fukuda, M.N., "Golgi Retention Mechanism of β -1,4-Galactosyltransferase," <i>J. Biol. Chem.</i> 270:12170-12176, American Society for Biochemistry and Molecular Biology, Inc. (1995)				
	AS	<u>44</u>	Yoshimura, M., et al., "Suppression of lung metastasis of B16 mouse melanoma by N-acetylglucosaminyltransferase III gene transfection," <i>Proc. Natl. Acad. Sci.</i> 92:8754-8758, National Academy of Sciences (1995)				
	AT	<u>44</u>	Yu Ip, C.C., et al., "Structural Characterization of the N-Glycans of a Humanized Anti-CD18 Murine Immunoglobulin G," <i>Arch. Biochem. Biophys.</i> 308:387-399, Academic Press, Inc. (1994)				
EXAMINER Patrick Riggins					DATE CONSIDERED March 17, 2005		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	45	United States Application No. 10/633,697, Umaña et al., filed August 5, 2003 (NOT PUBLISHED)
	AS	45	International Search Report for International Application No. PCT/US99/08711 mailed on August 17, 1999, United States Patent Office, Washington, DC
	AT	45	Search Report of Subject Search Conducted by Swiss Federal Institute of Intellectual Property Concerning WO 99/54342 (published international application corresponding to U.S. Appl. No. 08/294,548) dated July 18, 2001




EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	46	English language abstract of Japanese Patent No. JP 09084582 A, Derwent WPI Accession No. 1997-253000 [23] (March 1997)
	AS	46	English language abstract of German Patent No. DE 19546680 A1, Derwent WPI Accession No. 1997-321072 [30] (June 1997)
	AT	46	English language abstract of International Patent Publication No. WO 00/52135 A2, Derwent WPI Accession No. 2000-572178 [53] (September 2000)




EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1975.0010004/TJS		APPLICATION NO. 10/633,699	
				APPLICANT Umaña et al.			
				FILING DATE August 5, 2003		GROUP XXXXXX 1636	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	47	English language abstract of International Patent Publication No. WO 00/53730 A2, Derwent WPI Accession No. 2000-594316 [56] (September 2000)
	AS	47	English language abstract of International Patent Publication No. WO 01/29242 A2, Derwent WPI Accession No. 2001-290925 [30] (April 2001)
	AT	47	English language abstract of European Patent Publication No. 585 083 A1, Derwent WPI Accession No. 1994-067563 [09] (1994)

EXAMINER Patrick Riggins	DATE CONSIDERED March 17, 2005
-----------------------------	-----------------------------------




EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>48</u>	English language abstract of International Patent Publication No. WO 94/12646 A1, Derwent WPI Accession No. 1994-200274 [24] (1994)
	AS	<u>48</u>	English language abstract of European Patent Publication No. 481 790 A, Derwent WPI Accession No. 1992-134048 [17] (1992)
	AT	<u>48</u>	English language abstract of International Patent Publication No. WO 95/15769 A1, Derwent WPI Accession No. 1995-224151 [29] (1995)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXX 1636




U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>49</u>	English language abstract of International Patent Publication No. WO 97/34632 A1, Derwent WPI Accession No. 1997-479995 [44] (September 1997)
	AS	<u>49</u>	English language abstract of United States Patent No. 5,714,350 A, Derwent WPI Accession No. 1998-129858 (February 1998)
	AT	<u>49</u>	English language abstract of International Patent Publication No. WO 98/49198 A1, Derwent WPI Accession No. 1998-080758 [07] (November 1998)

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005



EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1975.0010004/TJS	APPLICATION NO. 10/633,699
	APPLICANT Umaña et al.	
	FILING DATE August 5, 2003	GROUP XXXXXX 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>50</u>	English language abstract of International Patent Publication No. WO 96/13516 A1, Derwent WPI Accession No. 1996-239446 [24] (1996)
	AS	<u>50</u>	English language abstract of International Patent Publication No. WO 98/58964 A1, Derwent WPI Accession No. 1999-081223 [07] (December 1998)
	AT		

EXAMINER
Patrick RigginsDATE CONSIDERED
March 17, 2005

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.